

BANASHEK, A.; SHCHUKINA, M.N.

β - And γ -pyridylthiazolines. Zhur.ob.khim. 30 no.10:3328-3332
0 '61. (MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S.Ordzhonikidze.
(Thiazoline)

BANASHEK, A.; SHCHUKINA, M.N.

2-(β - and γ -pyridyl)- Δ^2 -thiazolines. Part 2: Synthesis of
2-(α -alkyl γ -pyridyl)- Δ^2 -thiazolines, their 4-carboxylic acids
and (β - and γ -pyridyl)-2-thiazolyl- Δ^2 -methanes. Zhur.obkhim.
31 no.5:1479-1483 My '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S.Ordzhonikidze.
(Thiazoline) (Thiazolinecarboxylic acid)

BARASHEK, A.; SHCHUKINA, M.N.

2-(β - and γ -pyridyl)- Δ^2 -thiazolines. Part 3: Synthesis of
2-pyridylthiazolidones, their 4-carboxylic acids and their 2-
methyl substituted. Zhur.ob.khim. 31 no.5:1483-1488 My '61.
(MIRA 14:5)

Исследования в области синтеза химико-фармацевтического
институт имени С.Ордзхоникдзе.
(Thiazolidinone)

BAÑASHEK, A.; SHCHUKINA, M.N.

2-(β - and γ -pyridyl)-4,5-thiazolines; Part 5: Synthesis of
esters of 2-thiazolyl-4-phenyl- and pyridylacetic acids. Zhur.ob.
khim. 31 no.5:1488-1492 My '61. (MIRA 14:5)
(Thiazoleacetic acid) (Pyridineacetic acid)

BANASHEK, A.; SHCHUKINA, M.N.

2-(β^3 - and γ -pyridyl) - Δ^2 -thiazolines. Part 5: Alkyl-phenyl-pyridyl-2-thiazolinyl Δ^2 -carbinols. Zhur. ob. khim. 32 no.1:205-208 Ja '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.
(Thiazoline) (Methanol)

BANASHEK, V. E.

YANUSHKOVSKIY, V. A.; BANASHEK, V. E.

Radioactive method for controlling the filling of opaque containers
in continuous production. Masl.-zhir. prom. 23 no.5:26-31 '57.

(MLRA 10:5)

1. Institut fiziki Akademii nauk Latvyskoy SSR (for Yanushkovskiy).
2. Rizhskaya kosmeticheskaya fabrika "Dzintars". (for Banashek).
(Radioactivity--Instruments) (Automatic control)
(Containers)

BANASHEK, U.S.

25(10)
Vsesoyuznyy Nauchno-Issledovatel'skiy Tsentr
Khimicheskoy Fiziki
Sobremennyye Problemy
Khimicheskoy Fiziki
1957
4,500 copies printed.

Sponsored by the USSR Academy of Sciences
atomnoy energii, and Akademiya Nauk SSSR.
Editorial Board of Ser.: V.I. Kikhebin, Academician (Resp. Ed.), N.K. Chumilovskiy (Exec. Ed.), Yu. S. Zaslavskiy (Deputy Resp. Ed.), L.K. Zolotarev, B.I. Varkhovskiy, S.T. Kazarov, L.I. Petrasenko and M.G. Zeleninskaya (Secretary).

Ed. of Publishing House: P.K. Belyuzin; Tech. Ed.: T.P. Pelenova.
PURPOSE: This book is intended for specialists in the field of machine and instrument manufacture who use radioactive isotopes in the study of materials and processes.

COVERAGE: This collection of papers covers a very wide field of the utilization of tracer methods in industrial research and control techniques. The topic of this volume is the use of radioactive isotopes in the machine and instrument-manufacturing industry. The individual papers discuss the applications of radioisotope techniques in the design and alloys, problems of friction and lubrication; metal cutting and welding; measurement of stresses in the metal; several papers are devoted to the use of radioisotopes in the automation of industrial processes, recording and measuring devices, quality control, flowmeters, level gauges, safety devices, radiation counters, etc. These papers represent contributions of various Soviet institutes and laboratories. They were published as transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, April 4-12, 1957. No personalities are mentioned. References are given at the end of most of the papers.

Auzan, Ya. A., V.K. Banashek, Kh.E. Gume, I.M. Tatar, A.N. Tumulskiy, E.Y. Zhdanovskiy, K.A. Kvanis, and V.A. Yamshevol'skiy (Institut Fiziki Akademiya Nauk SSSR, zavod "Miy", Kompressor "Izhmash" - Institute of Physics, Academy of Sciences, Latvian SSR, VPI, Kompressor, and Drizbarskiy Plants). Automation and Control Equipment With Radioactive Isotopes 259

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Yamshevol'skiy, V.A., I.I. Sakayants, and V.A. Yamshevol'skiy (Vsesoyuznyy nauchno-issledovatel'skiy tsentr atomnoy energii - All-Union Scientific Center for Atomic Energy with Crystal Trisode, Academy of Sciences, Latvian SSR) Leningrad Steel Rolling Mill, Institute of Telemechanics, Academy of Sciences, USSR. Isotopes in the Control of the Process of Steel Strip Manufacture 271

Shumilovskiy, M.M., and Yu.V. Melniker (Institut avtomatiki i telemekhaniki AN SSSR - Institute of Automation and Telemechanics, Academy of Sciences, USSR). Use of Radioactive Radiations in the Noncontact Control of the Volume and Velocity of a Stream of Gas 276
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K Jordan, G.G., K.S. Purman, and T.G. Neyman (Nauchno-issledovatel'skiy institut teploenergeticheskogo priborostroyeniya, Nauchno-Issledovatel'skiy Institut Teploenergeticheskogo Priborostroyeniya, Scientific Research Institute for Heat-Power Instrument Making) Equipment for the Automatic Control of Gas Flow by Means of Beta Radiation 285

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BANASHEK, V. E., DEKHTYAR, D. Yu., DOMBUR, A. Ya., ROGACHEV, V. P.,
POZDNIKOV, V. N., and YANUSHKOVSKIY, V. A.

"Checking of the Process of Cementing in Foundations of Large-Scale
Hydrotechnical Constructions Through Radioactive Isotopes"

paper presented at the All-Union Seminar on the Application of
Radioactive Isotopes on Measurements and Instrument Building,
Frunze (Kirgiz SSR), June 1961

So: *Atomnaya Energiya*, Vol 11, No 5, Nov 61, pp 468-470

BANASHEK, V. E., DEKHTYAR, D. Yu., DOMBUR, A. Ya., POGACHEV, V. P., and
FOZDNIKOV, V. N., YANUSHKOVSKIY, V. A.

"Application of Relay Action Radioactive Instruments for
Automatic Systems in Technological Processes of the Chemical Industry
of the Latvian SSR, Sovnarkhoz"

paper presented at the All-Union Seminar on the Application of
Radioactive Isotopes in Measurements and Instrument Building,
Frunze (Kirgiz SSR), June 1961)

So: Atomnaya Energiya, Vol 11, No 5, Nov 61, pp 468-470

BANASHEK, E. I.

PA 9154

USSR/Fusion

May 1947

Barium compounds

Sodium compounds

"A Triple Nondiagonal System of Four Compounds:
NaCl, BaCl₂, NaF and BaF₂," E. I. Banashek, A. G.
Bergman

"Doklady Akademii Nauk SSSR" Vol LVI, No 5

The determination of the varying fusion point of a
mixture of fluorides and chlorides of barium and
sodium of varying proportions. Phase diagram
given.

9154

BARNASHEV, Ye. I.

CA

2

The nonreversible, reciprocal, "two-ridge" system of the fluorides and chlorides of barium and potassium. Ye. I. Barnashev and A. G. Bergman. *Doklady Akad. Nauk S.S.S.R.* 89, 905-6 (1947); *Chem. Zentr.* (Russian Zone Ed.) 1948, 1, 2; cf. *C.A.* 44, 8217A. -- A study made of the 4 binary systems belonging to the quaternary system: Ba-K-Cl-F verified the results of Ponomareff (*C.A.* 9, 1435), Plato (*C.A.* 2, 502, 3019), and Gensky (*C.A.* 8, 2528). The visual polythermal method was used for the investigation. Two diagonal and 23 interior lines (of intersection) form the square liquidus diagram of the reciprocal system. The pure salts are represented at the corners of the square. The most sharply defined, stable line of the system is the K_2Cl_2 - BaF_2 line. The next in order of stability is the K_2Cl_2 - BaF_2 - $BaCl_2$ line. The BaF_2 region occupies 50.12% of the field; next is the BaF_2 - $BaCl_2$ region (28.15%). These 3 fields are characterized on the space model by 3 sharply defined ridges (space folds). There are 4 catectics at 575° (BaF_2 , K_2F_2 , K_2Cl_2), 616, 636, and 728°. The last 3 contain no K_2F_2 . The nonreversible, reciprocal system of the diagonal type is characterized by the formation of the compound, BaF_2 - $BaCl_2$, which does not affect the direction and displacement of the displacement reactions. This is also true of the chlorides, which occupy only 0.75% of the liquidus field.

M. G. Moore

BANASHEK, Ye. I.

"On Chemical Interaction in Ternary Mutual Systems," Thesis for degree of
Gand. of Chem. Sci. Sub 22 Nov 50, Inst of General and Inorganic Chemistry im.
N. S. Kurnakev, Acad. Sci USSR.

71, 4 Sep 52

BANASHEK, E. I.

② 3
Two-fold irreversible-reciprocal system of potassium and barium fluorides and chlorides. E. I. Banashek and A. G. Bergman. *Izvest. Sektora Fiz.-Khim. Anal. Akad. Nauk S.S.S.R.* 20, 84-108 (1950); cf. *C.A.* 45, 7833i. -- The binary component system K_2F_2 - BaF_2 has a eutectic point at 729° and 58.0 mol. % K_2F_2 . KF - KCl had a eutectic at 606° and 55 mol. % KCl . K_2Cl_2 - $BaCl_2$ formed a compd. $K_2Cl_2 \cdot BaCl_2$, m. 660° . This compd. formed 2 eutectics with the parent salts at 651° and 646° . BaF_2 - $BaCl_2$ formed a compd. $BaF_2 \cdot BaCl_2$, m. $1008-10^\circ$. The eutectic points of this system were at 840° and 15 mol. % BaF_2 and 940° and 78 mol. % BaF_2 . $BaF_2 \cdot BaCl_2$ underwent geomorphic transformation at 940° and 27 mol. % BaF_2 . The internal diagonal cut K_2Cl_2 - BaF_2 had a eutectic at 739° and 14 mol. % BaF_2 . The BaF_2 branch of the curve had an S-shaped appearance. The internal diagonal cut K_2F_2 - $BaCl_2$ was unstable. On the BaF_2 and BaF_2 - $BaCl_2$ curve the maxima were at 914° and 48 mol. % BaF_2 and 910° and 70 mol. % BaF_2 , resp. Along the diagonal K_2Cl_2 - BaF_2 extended the field of BaF_2 in the shape of a fold. Another fold was formed by $BaF_2 \cdot BaCl_2$. This indicates that within this reciprocal system the process of complex formation does not displace the process of metathetic decompn.
M. Hosh

BANASHEK, E. I.

2

Two-fold irreversible-reciprocal system of rubidium and barium fluorides and chlorides. E. I. Banashek, *Vest. Sektsia Fiz.-Khim. Anal., Akad. Nauk S.S.S.R.* 20, 100-23 (1950).—The purpose of this investigation was to study the effect of complex formation on the metathetic reaction in the system Rb, Ba||F, Cl. Of the component binary systems Rb-F-BaF₂ had a eutectic point at 660° and 65 mol. % BaF₂. RbF-RbCl had a eutectic at 515° and 53 mol. % RbCl. Rb₂Cl₂-BaCl₂ formed Rb₂Cl₂·BaCl₂, m. 050°. The double salt reacted with the parent salt forming eutectics with 65 mol. % Rb₂Cl₂ at 624° and with 59.5 mol. % BaCl₂ at 631°. On a space diagram the system had 2 folds, one formed by BaF₂ and the other by BaF₂·BaCl₂. The formation of the double Ba salt did not affect the metathetic reaction within the system. This system was irreversible to a higher degree than was K, Ba||F, Cl. The Rb, Ba||F, Cl system is of the diagonal type. M. Hosh

BANASHEK, Ye. I.

BERGMAN, A.G.; BANASHEK, Ye.I.

Ternary reciprocal system of sodium and barium fluorides and chlorides.
Izv.Sekt.fiz.-khim.anal. 22:196-206 '53. (MLRA 7:5)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova
Akademii nauk SSSR. (Fluorides) (Chlorides) (Systems (Chemistry))

Reciprocal system of lithium and barium fluoride and chlorides. A. G. Bergman and E. I. Ruzhetskii. *Izv. Akad. Nauk SSSR, Ser. Khim. Nauk*, 1953, 201-21 (1953). The binary system BaF_2-BaCl_2 forms the compound $BaF_2 \cdot BaCl_2$, m. 1010°. Within this system are 2 eutectics, one at 810° and 83 mol. % $BaCl_2$, the other at 940° and 37 mol. % $BaCl_2$. The area of solid solns. formed by BaF_2-BaCl_2 and its components is small. The system $LiCl-BaCl_2$ forms a eutectic at 578° and 40 mol. % $BaCl_2$. At 600° and 61 mol. % $LiCl$ the latter undergoes a homopolymeric transformation. At 840° $BaCl_2$ undergoes a homopolymeric transformation. The system $LiF-BaF_2$ forms a eutectic at 448° and 14 mol. % BaF_2 . One transition point is at 785° and 14 mol. % BaF_2 , the other at 675° and 14 mol. % BaF_2 . One transition point is at 785° and 14 mol. % BaF_2 , the other at 675° and 14 mol. % BaF_2 . This system is an adiasial reciprocal with subordinated diagonals ($LiF-BaCl_2$ and $LiCl-BaF_2$) of no binary nature. H. H. Hosh.

BANASHEK, Ye. I.

3

USSR.

Thermodynamic properties of anhydrous lithium sulfate at high temperatures. N. K. Voskresenskaya and Ye. I. Banashek. *Izv. Akad. Nauk S.S.S.R., Ser. Khim., 1961, No. 10, p. 2081.*

Enthalpy for anhyd. Li_2SO_4 was measured in the interval 260-1279°K. Equations and values at different temps. are given for enthalpy ($\Delta H_{298.15}^{\circ}$), true heat capacity, and difference of entropy ($\Delta S_{298.15}^{\circ}$). Heat of conversion = 6530.7 cal./mol. at 859.0°K. Heat of melting = 1833.0 cal./mol. at m.p. 1133.0°K. Entropy of conversion = 7.6 cal./mol. degree. Entropy of melting = 1.6 cal./mol. degree. Eurika Mayerle

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BANDSHEK, Ye I

✓ Nondiagonal irreversible mutual system of fluorides and chlorides of lithium and strontium. E. I. Danilov and A. G. Ugarovskiy. *Izv. Akad. Nauk S.S.S.R. Ser. Khim.* 1954, 25, 295-301 (1954).
 The liquidus $LiF-SrF_2$ was studied; the eutectic point is at 76° and 33.5% SrF_2 . The diagram of the state of the system $Li_2Cl_2-SrCl_2$ was detd. Neither compounds, nor solid solns. are formed. The eutectic point is at 487° and 51% $SrCl_2$. $SrCl_2$ and SrF_2 form a congruently melting 1:1 compd. with eutectics at 740° and 10.6% SrF_2 and 930° and 62.6% SrF_2 . The liquids in the system of fluorides and chlorides of Li and Sr was studied. The diagram of this liquidus is considered in connection with the character of reaction of the salts at crystn. System Li, Sr||F, Cl is the first and simplest example of a completely irreversible mutual system of the nondiagonal type. *Burilla Mayerle*

MA 5/24/54

①

BANASHEK, Ye I

VOSKRESENSKAYA, N.K.; BANASHEK, Ye.I.

Thermodynamic properties of the anhydrous double salt $\text{Li}_2\text{SO}_4 \cdot \text{K}_2\text{SO}_4$ at high temperatures. Izv.Sekt.fiz.-khim.anal. 26:111-116 '55.
(MIRA 8:9)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR. (Thermochemistry) (Salts, Double)

BANASHAK, Ye. I.

B-8

USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium.
Physicochemical analysis, Phase transitions

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11138

Author : Banashak Ye.I., Patsukova N.N., Rassonskaya I.B.

Inst : Institute of General and Inorganic Chemistry, Academy of Sciences USSR

Title : Thermodynamic Properties of PbFCl, PbCl₂ and PbF₂ at High Temperatures

Orig Pub : Izv. Sektora fiz.-khim. analiza IONKh AN SSSR, 1956, 27, 223-232

Abstract : In the previously described calorimeter (RZhKhim, 1955, 23243) were measured by the method of mixing, the enthalpies of PbFCl (I), PbCl₂ (II), and PbF₂ (III), at different temperatures. On the basis of experimental data were found the empirical equations: for (I)

$$\Delta H_{293.16}^T \text{ (cal/mole)} = 19.26T + 2.29 \cdot 10^{-3}T^2 - 6.18 \cdot 10^5 T^{-2} - 7940 \text{ and}$$

$$C_p \text{ (cal/mole degree)} = 19.26 + 4.58 \cdot 10^{-3} T - 6.18 \cdot 10^5 T^{-2} \text{ (solid phase, 600-879}^\circ \text{ K)}$$

$$\Delta H_{293.16}^T = 27.90 - 4350 \text{ and } C_p = 27.97 \text{ (liquid phase, 879-950}^\circ \text{ K);}$$

$$L \text{ (melt) (cal/mole) = 8790 (T (melt) = 879}^\circ \text{ K)}$$

For (II)
in liquid phase $\Delta H_{293.16}^T = 28.37T - 7186$, $C_p = 28.37$, $L \text{ melt.} = 5200$.

Card 1/2

USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium.
Physicochemical analysis. Phase transitions

B-8

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11138

For (III)

$$\Delta H_{293.16}^T = 25.26T + 4.07 \cdot 10T^2 + 73.56 \cdot 10^4 T^{-1} - 10\ 050 \text{ and}$$

$$C_p = 25.26T + 8.14 \cdot 10^4 T - 73.56 \cdot 10^4 T^{-2} \text{ (solid phase, } 725\text{-}1099^\circ \text{ K);}$$

$$H_{293.16}^T = 26.97T - 8060, \quad C_p = 26.97 \text{ (liquid phase, } 1099\text{-}1160^\circ \text{ K);}$$

$$L \text{ (melt)} = 3000 \quad (T \text{ (melt)} = 1099^\circ \text{ K}).$$

On the basis of measurements of dissolution heat values of mixtures of I and II (3526 ± 30) and III (7227 ± 32) in 1N HNO₃ was determined the heat of formation of I from II and III: $\Delta H_{293.16}^T = 3700 \pm 60$. At 450°C a reversible polymorphic transformation was found to occur in III.

Card 2/2

BANASHEK, E. I.

USSR/Phys. Chemistry, Thermodynamics, Thermochemistry, Equilibriums B-8
 Phys. Chem. Anal-Is, Phase-Transitions

Abz Jour : Ref Zhur - Khimiya, No 7, 1957, 22246

Author : N. K. Voskresenskaya, V. A. Sokolov, E. I. Banashek,
 N. E. Shmidt.

Inst : Not given

Title : Thermodynamic Properties of Lithium Fluoride

Orig Pub : Izv. sektora fiz. khim. analiza IONKh AN USSR, 1956, 27,
 233-238

Abstract : Thermal capacity of crystalline LiF (9 points; error 0.7%) (I) is measured by the earlier described method (Sokolov V.A., Zh. tekhn. fiziki, 1948, 18, 813) in the range of 317-658°K. Data thus obtained with an average error of 0.25% are bound in an equation C_p (cal/deg mole) = $10.32 + 3.90 \cdot 10^{-3}T - 1.36 \cdot 10^{-5}T^2$. By formerly described method (R Zh Khim, 1955, 23243) the enthalpy of I is calculated in the range of 673-1410°K and expressed in equations $H_t - H_{293.16}$ (cal/mole) = $10.00T + 2.217 \cdot 10^{-3} \cdot T^2 + 122176 \cdot T^{-1} - 3559$ (solid phase; 0.35%) and $H_T - H_{293.16} = 32 + 15.175 T$ (1128-1410°K; liquid phase; 0.24%); $\Delta H(\text{ar.}) = 6477$, $\Delta S(\text{ar.}) = 5.78$ entr. units. The stand-

Card 1/2

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USSR/Phys. Chemistry, Thermodynamics, Thermochemistry, Equilibriums B-3
Phys.-chem. Anal-is, Phase-Transitions

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22246

ard enthalpy and entropy are respect. equal to $H_{298.16} = 1548$
cal/mole and $S_{298.16} = 8.53$ entr. units. Values of C_p , H , S ,
and Z are calculated and tabulated in the range of 50-1400° K.

Card 2/2

-83-

SVENTOSLAVSKIY, V.V. [Świątosławski, Wojciech]; ~~BARANOVSKIY, Ye.I.~~, kand.khim.
nauk [translator]; ZAKHAR'YEVSKIY, V.A., red.; BELEVA, M.A.,
tekhn.red.

[Physical chemistry of coal tar] Fizicheskaia khimii kamennogo-
ugol'noi smoly. Translated from the Polish. Moskva, Izd-vo
inostr.lit-ry, 1958. 370 p. (MIRA 12:2)
(Coal tar)

BAKASHEK, Ye.I.; RUBINCHIK, S.M.; SOKOLOV, V.A.; EL'KIND, S.A.

System for thermostatic control of a furnace up to 1,400^o C. Prib.
i tekhn. eksp. no. 2:156-158 M₂-Ap '60. (MIRA 13:7)

1. Institut obshchey i neorganicheskoy khimii AN SSSR.
(Thermostat)

SOKOLOV, V.A.; BANASHEK, Ye.I.; RUBINCHIK, S.M.

Enthalpy of corundum in the 678 - 1330°K temperature range. Zhur.
neorg.khim. 8 no.9:2017-2020 S '63. (MIRA 16:10)

I. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova
AN SSSR.

BANASHEK, Ye.I.; SOKOLOV, V.A.; RUBINCHIK, S.M.; FOMIN, A.I.

Measurement of corundum enthalpy at temperatures from 1290 to 1673°K.
Izv. AN SSSR. Neorg. mat. 1 no.5:698-701 My '65. (MIRA 18:10)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN
SSSR.

BANASHKIEWICZ, Tomasz

Analysis of the occurrence of trauma on factory ships. Bull.
Inst. Mar. Med. Gdansk 15 no.3:219-225 '64

1. Z Instytutu Medycyny Morskiej w Gdansku.

27

The barium thiosulfate monohydrate as a standard in volumetric analysis. H. Hasegawa and K. Kuroda, Chem. Zasshi (Japan) 61, 1024 (1944). C. MacNevin, J. Polym. Sci. 1, 102 (1946). MacNevin and MacNevin J. Polym. Sci. 1, 102 (1946). It was found in contact in agreement with the claims of MacNevin and MacNevin J. Polym. Sci. 1, 102 (1946). The following reasons: (a) It is easily obtained in the reaction between $\text{Na}_2\text{S}_2\text{O}_3$ and BaCl_2 salts. (b) It is not volatile and hygroscopic and can be weighed normally. (c) It is fine-grained and suitable quantities can be accurately weighed. (d) It can be used in volumetric analysis with an error of propagation. (e) It can be used for prep standard solution by weighing and dissolving in water. These salts are stable for many months. (f) It has a large equiv. wt. ($M = 287.5$) and this reduces error.

[Handwritten signature]

S/081/62/000/022/036/088
B158/B101

AUTHOR: Banasik, Zbigniew

TITLE: Apparatus for continuous abrasion control using radioisotopes

PERIODICAL: Referativnyy zhurnal. Khimiya, no.22, 1962, 308, abstract
22I207 (Pierwsze krajowe sympoz. zastosowań izotopów w techn.
Rogów, 8 - 12 czer., 1960. Warszawa, no. 46, 1961 [Pol.;
summaries in Russ. and Eng.]).

TEXT: The content of abrasion products from the moving parts of an "Ams-
ler" machine, labelled with Co^{60} , was determined in the machine oil from
the radioactivity using a scintillation counter. The efficiency of the
apparatus is 11 % at a γ -quantum energy of >1 Mev. [Abstracter's note:
Complete translation.]

Card 1/1

BANASIK, Zbigniew; RADWAN, Maciej

Methods of testing the abrasion resistance of cutting tools by means of radioisotopes. Nukleonika 7 no.7/8:511-519 '62.

1. Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Zaklad Badan Izotopowych, Warszawa.

BANASIK, Zbigniew

Elaboration of a method of testing the avrasiveness of piston rings of M-20 combustion motor by means of radioisotopes. Nukleonika 7 no.7/8:521-524 '62.

1. Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Zaklad Badan Izotopowych, Warszawa.

RADWAN, Maciej, prof. dr; BANASIK, Z., mgr inż.; PACALOWSKI, Janusz, inż.

Tin segregation tests in AlSn30 alloy ingots with radioisotopes. Hutnik P 30 no.6:169-174 Je '63.

BANASIK, Zbigniew, mgr inż., adiunkt; BOROWIK, Stanisław, mgr inż.;
RADWAN, Maciej, prof. dr inż.; SARNA, Janusz, mgr inż.

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2. Department of Automatic Control in Mechanics, Technical University, Warsaw (for Borowik).
3. Head, Department of Isotopic Research, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw (for Radwan)

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2. National Power Economy Authority, Budapest (for Majoros).

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Institute of Organic Chemistry and Biochemistry,
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Banassek visiting scientist from Department of Organic
Chemistry, University of Warsaw, Poland (Katedra chemii
organicznej, Uniwersytet Warszawski, Poland)

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4. Sanatorium w Istebnej (for Krosniak, Gwozdz). 5. Sanatorium
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SZIGETI, Pal, dr.; BANAT, Istvan, dr.; SASSY-DOBRAY, Gabor, dr.

Clinical application of isoniazid and early results. Orv. hetil.
95 no.35:956-963 29 Aug 54.

1. Budapest Fovaros Tanacsna Janos-korhaza (igazgato-foorvos:
Bakacs Tibor dr.) I. Tudobeteg osztalyanak (foorvos: Szigeti Pal
dr.) es a Nephadsereg Egeszsegugyi Szolgalatanak kozlemenye
(NICOTINIC ACID ISOMERS, therapeutic use
in tuberc.)
(TUBERCULOSIS, therapy
isoniazid)

BANAT, Istvan, dr.; KRISTOF, Sandor, dr.; SILLO, Ferenc, dr.;
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Results of tuberculin screening in the 20 years old age group.
Orv.hetil. 97 no.2:39-43 8 Jan 56.

1. A Magyar Nephadsereg Egészségügyi Szolgálatának közleménye.
(TUBERCULIN REACTION, statist.
in Hungarian army recruits (Hun))
(ARMED FORCES PERSONNEL, dis.
tuberculin tests in Hungarian army recruits, statist.(Hun))

BANATEANU, Gh.; CONSTANTINESCU, M.; DAVID, V.; POPESCU, V.

Permeability of sand-bentonite cores to watery solutions containing different chemical substances. Pt. 2. Bul Inst Petrol Rum no. 10:33-41 '63.

BANATI, Jozsef

The preparation has been efficient. Magyar vasut 6 no.24:5 15 D '62.

1. Szakszervezeti titkar, Pecs.

BANATT, Lajos

Situation of the Greek railroads. Vasut 13 no.1:30 30 Ja '63.

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The railroad system of India. Vasut 12 no.12:19 D '62.

COUNTRY : Rumania E-2
CATEGORY :
ABS. JOUR. : RZKhim., No. 1959, No. 8&180
AUTHOR : Banatesanu, Ch.; Serbanescu, A.; *
INST. : Bucharest Institute of Petroleum and Gas
TITLE : Rapid Determination of Phosphoric Acid in
Kola Apatite and Bone Meal by the Method
of Copaux.
ORIG. PUB. : Lucrarile Inst. petrol si gaze Bucuresti,
1957, 3, 345-352
ABSTRACT : For determination of P_2O_5 in apatite and bone
meal, use is made of the method of Copaux (Copaux H., C. R.
des Seances de l'Acad. des sciences, 1921, 173, p. 656),
based on formation of ether-phosphomolybdic acid complex
in an acidic medium (pH 0.45-0.65). The latter, after
centrifugation, is separated from excess ether and water,
as a yellow, oily liquid, the volume of which depends on
 P_2O_5 content of the sample. To the sample being analyzed
(5 g) are added 10 ml concentrated HNO_3 and 50 ml concentrated
 H_2SO_4 , the mixture is evaporated until SO_3 -fumes
are evolved, cooled, 200 ml water are added, heated to a
boil, cooled, diluted with water to 500 ml, and filtered.
CARD: 1/3
*Vrabiescu, E.; Fedin, T.

10f

COUNTRY : Rumania E-2
CATEGORY :
ABS. JOUR. : RZKhim., No. 1959, No. 86180
AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : Bone meal is first calcined. P_2O_5 is determined in a special test tube into which are placed 2 ml of the above-stated filtrate, 3 ml water, 5 ml 15% HCl (or 20% H_2SO_4), 4 ml ether (free from C_2H_5OH), and 5 ml 14% solution of Na-molybdate, the mixture is thoroughly stirred and centrifuged for 3 minutes. The ether-phosphomolybdic complex collects in the lower, narrower, graduated part of of the test tube, where its volume can be read off (with an error of up to 0.01 ml). It was ascertained that there is exact proportionality between volume of the liquid and content of P_2O_5 ; therefore the latter is determined by the method of interpolation, using for this purpose the data

CARD: 2/3

COUNTRY : Rumania E-2
CATEGORY :
ABS. JOUR. : RZKhim., No. 1959, No. 86180
AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : obtained with a standard solution of KH_2PO_4
(≈ 6 g/liter). In accuracy, the method is not inferior to
the gravimetric; duration of determination is of 15 minutes.
B. Manole.

CARD: 3/3

105

BANATEANU, Gh.; CONSTANTINESCU, M.; FEDIN, T.

Behavior of the bentonitic rocks in contact with watery
solutions containing various chemical substances. Pt. 1.
Bul Inst Petrol Rum 9: 39-55 '63.

TITEICA, R.; PALADE, Gh.; BANATEANU, Gh.; STRUGARU, Al.

Research on the absorption spectrum of Congo red. Bul
Inst Petrol Rum 9: 189-197 '63.

IOAN, P.; BANATEANU, P.

"Economy, organization, and planning of socialist industry" by
C. Pintilie. Vols.1-3. Reviewed by P. Ioan, P. Banateanu. Rev
chimie Min petr 14 no.9:549-550 S '63.

BANATI, Istvan

Dissemination of knowledge by trade unions in Békés County.
Munka 4 no.2345-46 F154

1. Társadalom- és Természettudományi Ismeretterjesztő Társulat
Békés megyei szervező titkára.

BARATI, Laioa

Railway ticket prices are rising in the U.S.A. Vasut
8 no.2:18 15 Mr '58.

BANATI, Lajos

Automobile traffic in Iceland. Auto motor 12 no.3:11 F '59.

BANATI, Lajos

Motor vehicle, road and taxes in the capitalist world. Auto
motor 14 no.15: 6 Ag '61.

BANATI, Lajos

Diesel locomotives and their role in the United States.
Vasut 12 no.683 of cover 30 Je '62.

BANATI, Lajos

Freight cars on the United States railroad lines. Vasut
12 nov 11:22 26 N '62.

BANATI, Lajos

Argentina and its railroad system. Vasut 13 no.6:14-15 Je '63.

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Tourists and luxury trains. Vasut 13 no.8:24 Ag '63.

SZEMES, Gaber, dr., a biologiai tudományok kandidátusa; BOZZAY, E.; BANATI, M.

Analysis of the Danube water at the large surface waterworks of Budapest with special regard to the quantitative conditions of plant microorganisms. Hidrológiai közlöny 43 no.2:165-176 Ap '63.

1. Eötvös Loránd Tudományegyetem Növényrendszertani és Növényföldrajzi Intézete, Budapest (for Szemes and Banati). 2. Fejérvári Vízművek Laboratóriuma, Budapest, (for Bozzay).

BANATOV, P., inzh.

Achievements of I. Seminikhin's brigade. Mast. ugl. 7 no. 6:7-8
Jo '58. (MIRA 11:7)

(Coal mines and mining)

BANATOV, Petr Stepanovich; SOSNOV, Konstantin Aleksandrovich; ZOLOTAREV,
A.K., redaktor; ALADOVA, Ye.I., tekhnicheskiy redaktor; SABITOV,
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[Automatic doors for mine ventilation] Shakhtnye avtomaticheskie
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(Mine ventilation) (MLRA 8:10)

BANATOV, P., inzhener; GHEDOV, N., inzhener

Automatic ventilation doors. Mast. ugl. 4 no. 9:19-20 S'55.
(Mine ventilation) (MLRA 9:1)

BANATOV, Petr Stepanovich; ASTAKHOV, A.V., otv.red.; CHANTSEVA, G.M.,
~~tekhn.red.~~

[Repair of mining machinery] Remont gornykh mashin. Moskva:
Ugletekhizdat, 1959. 187 p. (MIRA 12:4)
(Mining machinery--Maintenance and repair)

BANATOV, P.S., gornyy inzh.

Results of the testing of the K-52m cutter-loader. Ugol' Ukr. 3
no.11:36-37 N '59. (MIRA 13:3)
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BANATOV, P.S.; SILINA, L.A., red. izd-va; BOLDYREVA, Z.A., tekhn.
~~red.~~

[Repair and maintenance of mining equipment] Remont i ob-
sluzhivanié shakhtnogo oborudovaniia. Moskva, Gos. nauchno-
tekhn. izd-vo lit-ry po gornomu delu, 1961. 342 p.
(MIRA 15:3)

(Mining machinery—Maintenance and repair)

BANATOV, Petr Stepanovich; SILINA, L.A., red. izd-va; BOLDYREVA, Z.A.,
~~tekh. red.~~; PROZOROVSKAYA, V.L., tekh. red.

[Repair of mining machinery] Remont gornyykh mashin. Izd. 2.,
perer. i dop. Moskva, Gosgortekhnizdat, 1962. 231 p.
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(Mining machinery--Maintenance and repair)

BANATOV, P.S., gornyy inzh.

Organization of the maintenance and repair of mining equipment.
Ugol' Ukr. 6 no.1:23-24 Ja '62. (MIRA 15:2)
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BANATOV, Vladimir Petrovich; KROKHMALEV, Aleksandr Ivanovich;
ISAYEVA, V.V., vedushchiy red.; FEDOTOVA, I.G., tekhn.red.

[Combating the formation of cavities in clay interlayers
and cementing oil wells as preventive measures against the
infiltration of reservoir waters] Razobshchenie i izolyatsiia
neftianikh plastov ot postoronnikh vod; opyt neftianikov
Kuibyshevskogo ekonomicheskogo raiona. Moskva, Gos.nauchno-
tekhn.isd-vo neft. i gorno-toplivnoi lit-ry, 1959. 73 p.
(MIRA 12:8)

(Mukhanovo region--Oil well cementing)